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| Examiner | | Application No. | Applicant(s) | | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address → Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Each storm from the answince with previous of 3 CPR 1.735(s). In no event, however, may a reply be timely filed Each storm from the answince with previous of 3 CPR 1.735(s). In no event, however, may a reply be timely filed Each storm from the answince with previous of 3 CPR 1.735(s). In no event, however, may a reply be timely filed Each storm from the previous of the storm from the previous of 3 CPR 1.735(s). In no event, however, may a reply be timely filed Each storm from the plantwent on the previous of 3 CPR 1.735(s). In no event, however, may a reply be timely filed Each storm from the plantwent on the plantwent of the previous of the communication. If the period for reply appendix on the previous is less than this (30) days, as the previous of the communication. Any reply received by the Office lider than there months after the analiting date of this communication, even if threely filed, may reviews any seamed pattern time eligibution. Any reply received by the Office lider than there months after the analiting date of this communication, even if threely filed, may reviews any seamed pattern time eligibution. Any reply received by the Office lider than there months after the analiting date of this communication, even if threely filed, may reviews any seamed pattern and eligibution. Any reply received to may control the analiting date of this communication, even if threely filed, may reviews any seamed pattern. Application of Claims A) Claim(s) | | 10/699,591 | ALLAN ET AL. | | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Edentesion of other myto be evident under the provision of 37 CFR 1.134(s). In no event, however, may a raply be timely filled Edentesion of other myto be verificated under the provision of 37 CFR 1.134(s). In no event, however, may a raply be timely filled If the period for reply appendixed shows the machine of 17 CFR 1.134(s). If the period for reply appendixed shows the machine of 17 CFR 1.134(s). If the period for reply appendixed shows the machine of the period for reply within the satisfactory minimum or thirty (30) days will be considered drinely. If the period for reply appendixed shows the machine of the period of the period for reply will, by exhalten the making period will be shown that the period of reply shows the period for reply will, by exhalten the making period will be shown that the making period will be second-dependent term adjustment. See 37 CFR 1.704(s). Status 1 ∑ Responsive to communication(s) filled on 31 October 2003. 2a) ☐ This action is FINAL. 2b) ∑ This action is non-finat. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ∑ Claim(s) ± safare allowed. Claim(s) ± safar | Office Action Summary | Examiner | Art Unit | | | | |
| Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - are six (i) MONTHS from the maintenance provisions of 37 CFR 1.135(s), in ne event, however, may a reply be timely filled - are Six (i) MONTHS from the maintenance provisions of 37 CFR 1.135(s), in ne event, however, may a reply be timely filled - are six (ii) MONTHS from the maintenance provisions of 37 CFR 1.135(s), in ne event, however, may a reply be timely filled - are six (ii) MONTHS from the maintenance provisions of 37 CFR 1.135(s), in ne event, however, may a reply be timely filled - are six (iii) MONTHS from the maintenance and the statutory maintenance and statutory filled are six (iii) MONTHS from the maintenance and statutory filled, may reduce a six of status 1) | | Zoila E. Cabrera | 2125 | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Exhibitions of the margic be articlared used the provious of 3° CPR 1.13(c). In no event, however, may a reply the timely filled the period for reply specified above is less than thirty (30) days, a reply within the statisticy profession and carried transports. If this period for reply specified above is less than thirty (30) days, a reply within the statisticy profession in the statistic period will device the period for reply specified above, the maximus attaints period will adults or part of surface and the statistics period will adults or second adults or mainted and the statistic period will adults or second adults or the statistic period will give a device the specification. Fallow to reply within the set or extended period for reply will, by statistic ten statistic gets of the communication. Second Profession and the second patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filled on 31 October 2003. 2a) This action is FINAL. 2b) This action is provided the second and accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) Claim(s) Claim(s) Claim(s) Claim(s) Claim(s) The specification is objected to by the Examiner. Claim(s) Claim(s) The specification is objected to by the Examiner. Claim(s) Claim(s) The drawing(s) filed on See 37 CFR 1.35(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12 Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 2) According to piece of the priority documents have been rece | The MAILING DATE of this communication app | ears on the cover sheet with the c | orrespondence address | | | | |
| THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be variable under the provision of 37 CPR 1.13(s). In no event, however, may a reply be timely field of the TSK (6) MONTHS from the mailing date of this communication. of 37 CPR 1.13(s). In no event, however, may a reply be timely field of the TSK (6) MONTHS from the mailing date of this communication. It is a state of the communication of the TSK (6) MONTHS from the mailing date of this communication. Failure to reply vision the set of extended period for reply will, by attaine, cause the application to become ABANDONED (38 U.S. C., \$ 133). Any welly review by the Office less than these machines that the mailing date of this communication, even if timely fired, may reduce any vision peters term department. See 37 CPR 1.74(s). Status 1) Responsive to communication(s) filled on 31 October 2003. 2a) This action is FINAL. 2b) This action is non-final. 3) Isince this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quay/e, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) f-22 Islare pending in the application. 4a) Of the above claim(s) islare withdrawn from consideration. 5) Claim(s) islare allowed. 6) Claim(s) islare objected to by the Examiner. 10 | | VIC CET TO EVDIDE AMONTH | (C) EDOM | | | | |
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Art Unit: 2125

DETAILED ACTION

Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 14-22 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The steps of claims 14-22 consist solely of mathematical operations without practical application in the technological arts or simply manipulates abstract ideas without practical application in the technological arts.

Please note that the language of claim 14-22 is directed merely to an abstract idea that is not tied to a technological art, environment, or machine which would result in a practical application producing a concrete, useful, and tangible result to form the basis of statutory subject matter under 35 U.S.C. 101. Merely setting or determining values is too preliminary to permit one of ordinary skill to realize any usefulness in the technological arts.

Please amend claim 14 to properly recite that the computer is used for determining the steps recited. "providing a computer" does not necessarily means that the computer is used to determine the parameters and thereby modify them. A computer can be placed with a program and not necessarily use such computer as the claims are recited.

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Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 7, 13 are rejected under 35 U.S.C. 102(b) as being anticipated by **DeBoynton (US 6,304,383)** the subsequent thermal processing includes forming at least one semiconductor layer over the glass material (Col. 4, lines 59-67).

3).

As for claim 1, **DeBoynton** discloses a method of determining parameters of plurality of thermal cycles to achieve a set glass strain level (Abstract), the method comprising:

providing a plurality of input parameters for a glass substrate and a plurality of parameters for a plurality of thermal cycles (Fig. 5, element 248; Col. 7, lines 59- Col. 8, line 4); and providing a computer which is adapted to iteratively modify at least one of the plurality of thermal cycle parameters so the glass strain is not greater than the set glass strain level after a final thermal cycle is completed (Fig. 5, element 186, 286; Abstract; Col. 2, line 62 - Col. 3, line 36; Col. 7, lines 43-49).

7. A method as recited in claim 1, wherein the set glass strain level is a compaction level (Col. 5, lines 1-10 and lines 26-29).

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13. A method as recited in claim 1, wherein the parameters are pairs of time and temperature (Col. 8, lines 57-62; Col. 8, lines 30-38), please note that time and temperature parameters are needed for thermal control).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over **DeBoynton (US 6,304,383)** in view of **Bocko (US 5,597,395)**.

DeBoynton discloses the limitations of claim 1 and further discloses the limitations of claim 6, the subsequent thermal processing includes forming at least one semiconductor layer over the glass material (Col. 4, lines 59-67). But DeBoynton fails to disclose the limitations of claims 2-5. However, Bocko discloses such limitations as follows:

- 2. A method as recited in claim 1, wherein the iterative modifying includes providing a penalty function, which provides constraints on allowed temperature variations, heating and cooling rates, hold times, and durations of the plurality of thermal cycles (Col. 4, lines 17-35; Col. 5, lines 39-43).
- .3. A method as recited in claim 1, wherein the input parameters include parameters from the manufacturing thermal history of a glass material (Col. 6,

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lines 63-65).

- 4. A method as recited in claim 3, wherein the input parameters includes parameters for a subsequent thermal processing sequence (Col. 6, lines 63-67).
- 5. A method as recited in claim 4, wherein the input parameters include a single choice of time and temperature for the manufacturing thermal history and the subsequent thermal processing (Col. 6, lines 63-67).

Therefore, it would have been obvious to a person of the ordinary skill in the art at the time the invention was made to combine the teachings of **DeBoynton** with **Bocko** because it would provide an improved control system for precompacting glass, particularly glass sheets with minimal damage to the glass sheet during the precompaction process (Col. 2, lines 40-45; Col. 1, lines 10-14).

4. Claims 8-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over **DeBoynton (US 6,304,383).**

As for claims 8-11, **DeBoynton** discloses the limitations of claims 1 and 7 above. DeBoynton further discloses the limitations of claim 12, all of the plurality of parameters is iteratively modified (Col. 8, lines 57-62). However, DeBoynton fails to disclose compaction magnitudes not exceeding approximately 10 ppm or ranges of approximately 0 ppm and -10 ppm; the glass strain is less than approximately 10ppm;

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and plurality of parameters is in the range of approximately 10.sup.3 to approximately 10.sup.6.

However, absent any evidence of criticality or unexpected results, such magnitudes and ranges are believed to represent an obvious matter of design choice to one of ordinary skill in the art. Therefore, it would have been obvious to a person of the ordinary skill in the art at the time the invention was made to have used such magnitudes and ranges during the experimentation of compaction process of glasses.

Allowable Subject Matter

5. Claims 14-22 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 101.

The following is a statement of reasons for the indication of allowable subject matter: The allowability of the claims resides, at least in part, that the closest prior art of record **DeBoynton et al. (US 6,304,383)** does not disclose or suggest, alone or in combination, the steps of:

As for independent claim 14, e) calculating a value of viscosity at a current temperature and a current fictive temperature; f) calculating a change in the fictive temperature for a given change in time; g) updating a set of data including the current temperature, the current time and storing these data; h) determining if the current time from step g) is set final time, and if not repeating steps e) through h), and if so, termination the method, in combination with the other elements and features of the claimed invention.

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Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning communication or earlier communication from the examiner should be directed to Zoila Cabrera, whose telephone number is (571) 272-3738. The examiner can normally be reached on M-F from 8:00 a.m. to 5:30 p.m. EST (every other Friday).

If attempts to reach the examiner by phone fail, the examiner's supervisor, Leo Picard, can be reached on (571) 272-3749. Additionally, the fax phones for Art Unit 2125 are (703) 872-9306. Any inquiry of a general nature or relating to the status of this application should be directed to the group receptionist at (703) 305-9600.

Zoila Cabrera Patent Examiner

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| INFORMATION DISCLOSURE CITATION | | | Docket Number (Optional) CRNG.047 | | Application Number 10/699,591 | | | | |
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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | | |
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